

ABSTRACT OF THE DISCLOSURE

A multi-processor unit includes a first domain for processing data according to first configuration information and having multiple first domain processors each connected to communication apparatus and each performing a different function of the first processing.

The first domain processors include a first domain control processor for controlling the first processing of the first domain. The multi-processor unit also includes a second domain for second processing of the first processed data depending on a second domain configuration and having multiple second domain processors each connected to the communication apparatus and each performing a different function of the second processing. The second domain processors include a second domain control processor for controlling the second processing of the second domain. The multi-processor unit also including a global control processor connected to the communication means for providing the first domain configuration information and the second domain configuration information through the communication means for configuring the first and second domains.